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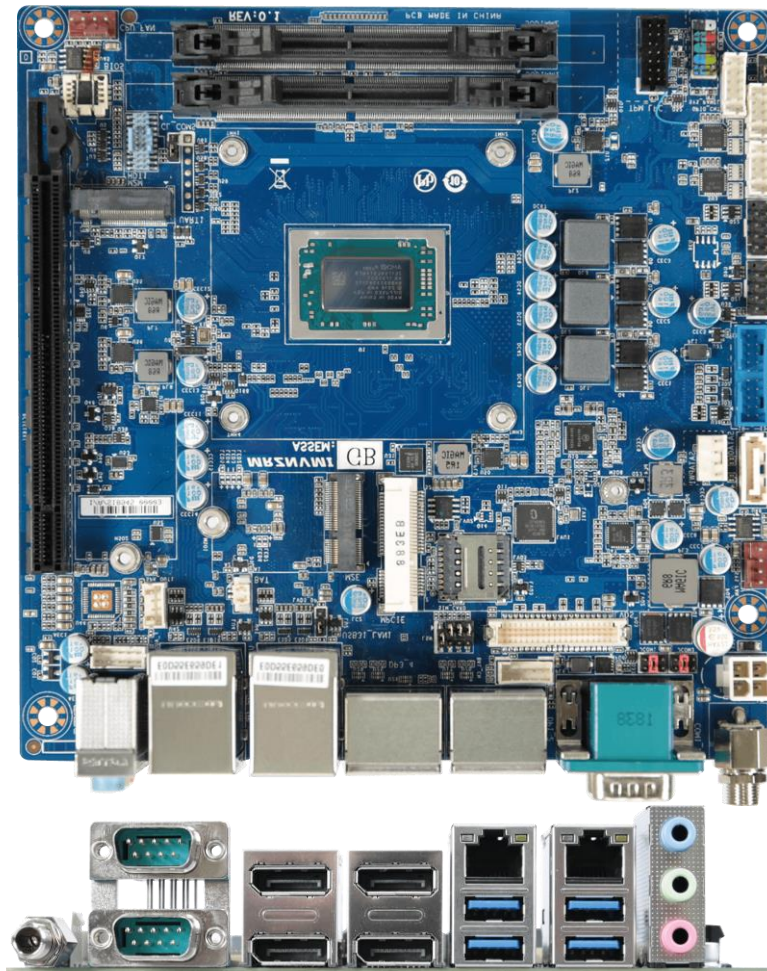
 DISPLAY
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Datasheet

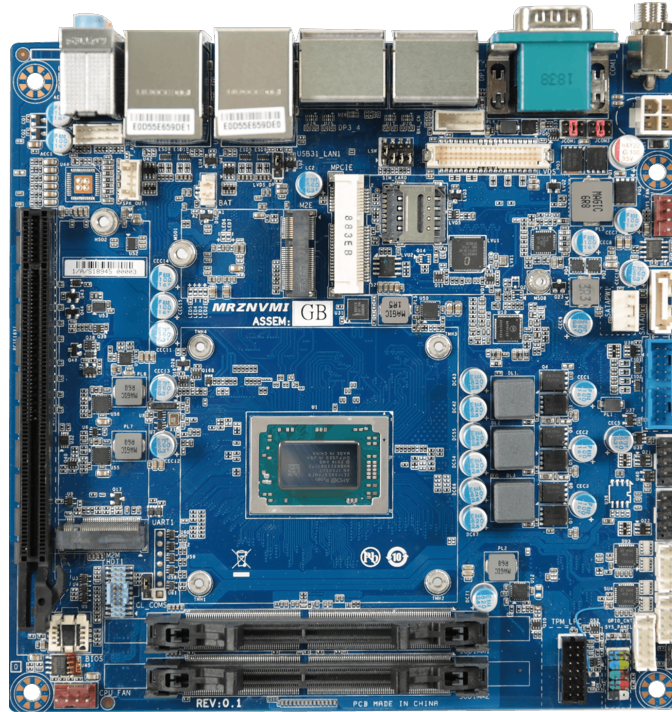
GIGAIPC mITX-1605A

Industrial Mini-ITX Motherboard with AMD® Ryzen® V1000 Series Processor



Note: a separate manual / datasheet is available for each version

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mITX-1605A

Mini-ITX Embedded Motherboard with AMD® RYZEN™ V1605B Embedded Processor, Dual Channel DDR4 memory, PCIe , 4 x COM , 1 x SATA 6Gb/s, 10 x USB

Key Features

- Mini-ITX form factor
- AMD® RYZEN™ V1605B Embedded Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN ports
- 1 x SATA 6Gb/s port
- 4 x DP, LVDS (Switch from DP) ports for multiple display
- Realtek ALC269 audio codec
- 1 x PCIe x16 (X8 signal) expansion slot
- 2 x RS232/422/485/5V/12V COM ports
- 2 x RS232 COM ports

SPECIFICATION

Mini-ITX Embedded Motherboard with AMD® RYZEN™ V1605B Embedded Processor, Dual Channel DDR4 Memory, PCIe, 4 x COM, 1 x SATA 6Gb/s, 10 x USB

FORM FACTOR	Mini-ITX 170W x 170D(mm)
CPU	AMD® RYZEN™ V1605B Embedded Processor, up to 3.6GHz TDP 25W 2MB of shared L2 plus 4MB of shared L3 total
SOCKET	1 x FP5 BGA
MEMORY	2 x DDR4 1.2V SO-DIMM sockets supporting up to 32GB of system memory Up to 2400MHz Max. memory capacity 32GB
ETHERNET	2 x GbE LAN ports (Realtek® RTL8111HS)
VIDEO	Integrated Graphics Processor - AMD Radeon™ Vega 8 Graphics 4 x DP port, supporting a maximum resolution of 4096x2160@60Hz 1 x LVDS port, supporting a maximum resolution of 1080P (switch from DP)
AUDIO	Realtek ALC269 controller High Definition Audio
STORAGE	1 x SATA 6Gb/s port
EXPANSION SLOTS	1 x PCIe x16 (X8 bus) slot 1 x Mini PCIe (Full Size PCIe & USB) with SIM slot 1 x M.2 slot: - M-key - SATA 6Gb/s - Supports NGFF-2280 cards 1 x M.2 slot: - E-key - Supports NGFF-2230 Combo cards
INTERNAL I/O	1 x 4-pin ATX power connector 1 x SATA 6Gb/s connectors 1 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0/1.1 header 2 x COM headers (RS-232) 1 x LPC/TPM header 1 x GPIO (8 bits) & SMBUS header 1 x Backlight Control header

	<p>1 x LVDS connector (Switch from DP)</p> <p>1 x LVDS/ DP Jumper</p> <p>1 x 3G/4G Sim Slot.</p> <p>1 x AT/ATX mode select jumper</p>
REAR I/O	<p>3 x Audio jacks (Line in, Line out, Mic in)</p> <p>2 x COM (RS-232/422/485 and RI/5V/12V)</p> <p>4 x DP</p> <p>2 x RJ45</p> <p>4 x USB3.0</p> <p>1 x DC Jack (+12V~24Vdc)</p>
TPM	<p>1 x TPM Header</p>
OS COMPATIBILITY	<p>Windows 10 (x64)</p>
PSU CONNECTORS	<p>1 x DC-in +12~24Vdc (full Range)</p> <p>1 x 4-pin ATX power connector</p>
OPERATING PROPERTIES	<p>Operating temperature: 0°C to 60°C</p> <p>Operating humidity: 0-90% (non-condensing)</p> <p>Non-operating temperature: -40°C to 85°C</p> <p>Non-operating humidity: 0%-95% (non-condensing)</p>
PACKAGING CONTENT	<p>BOX Packing Capacity: 10pcs</p> <p>Carton size: 460 x 345 x 203(mm)</p> <p>Content:</p> <p>IO Shield x 1 (TBD)</p> <p>SATA Power cable x 1 (25CRI-200B02-K1R)</p>
ORDER INFORMATION	<p>Fan version: 9MRZNVMMIMR-SI</p>

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